

Table 1 Attribute and Text Changes for INGEST L4s

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S-INS-00030	4028	IR1	functional	agreed	test	<u>unverified</u>			The INGST CI shall authenticate the provider of a Network Ingest Request as an authorized provider of data to be ingested.
S-INS-00040	4029	IR1	functional	agreed	test	<u>unverified</u>			The INGST CI shall report status to the provider of a Network Ingest Request and to the Error Log indicating successful or unsuccessful authentication of the provider as authorized to submit the request.
S-INS-00205	4046	A	functional	approved	demo	<u>unverified</u>			The INGST CI shall determine the External Data Provider for a Network Ingest Request entered interactively by a science user.
S-INS-00208	4048	A	functional	approved	demo	<u>unverified</u>			The INGST CI shall authenticate that the interactive science user entering a Network Ingest Request is authorized to request ingest of data.
S-INS-00209	4049	A	functional	approved	demo	<u>unverified</u>			The INGST CI shall report to the Error Log an unauthorized attempt to interactively request ingest of data.
S-INS-00220	4051	A	functional	approved	demo	<u>unverified</u>			<p>The INGST CI shall report status to the interactive submitter of a Network Ingest Request for the following:</p> <ul style="list-style-type: none"> a. File transfer failure b. File size discrepancy c. Invalid Data Type Identifier d. Missing required metadata e. Metadata parameters out of range f. Data conversion failure g. Failure to archive data h. Inability to transfer data within the specified time window i. Unauthorized science user j. Missing required request information k. Successful archive of the data
S-INS-00221	4052	A	functional	approved	demo	<u>unverified</u>			The INGST CI shall interactively accept Document Ingest Requests from authorized science users for ingest of a single collection of document Data from a location accessible via the ESN. The collection of document Data shall describe one or more document Data Granules.
S-INS-00225	4055	A	functional	approved	demo	<u>unverified</u>			The INGST CI shall determine the data provider and assign the Priority Information for a Document Ingest Request entered interactively by a science

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									user.
S-INS-00227	4057	A	functional	approved	demo	<u>unverified</u>			The INGST CI shall authenticate that the interactive science user entering a Document Ingest Request is authorized to request ingest of data.
S-INS-00228	4058	A	functional	approved	demo	<u>unverified</u>			The INGST CI shall report to the Error Log an unauthorized attempt to interactively request ingest of document data.
S-INS-00230	4060	A	functional	approved	demo	<u>unverified</u>			The INGST CI shall report status to the interactive submitter of a Document Ingest Request for the following: a. File transfer failure b. File size discrepancy c. Invalid Data Type Identifier d. Missing required metadata e. Metadata parameters out of range f. Data conversion failure g. Failure to archive data h. Inability to transfer data within the specified time window i. Unauthorized science user j. Missing required request information k. Successful archive of the data
S-INS-00400	11850	A	functional	agreed	demo	unverified	96-1212B		The INGST CI shall convert ingested data into an ECS standard format, for following data types: a. NMC <u>NCEP</u> GRIB formatted final analysis report. b. NMC <u>NCEP</u> GRIB formatted medium range forecast report. c. NESDIS Snow/Ice Product in EDR Mastermap format. d. TOMS Products in version-7 of the TOMS CDROM format.
S-INS-00401	11806	B0	functional	approved	test	unverified	96-1355		The INGST CI shall convert <u>and reformat</u> ingested data into a form accepted by the SDSRV CI/ DDSRV CI.
S-INS-00402	11807	<u>B0</u> <u>B1</u>	functional	approved	test	unverified	96-1355		The INGST CI shall <u>convert and</u> reformat ingested data into a form accepted by the SDSRV CI/ DDSRV CI, as needed.
S-INS-00404	11618	A	functional	agreed	demo	unverified	96-1158		The INGST CI shall extract metadata from ingested data into a form accepted by the Science Data Server

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									/Document Data Server, as needed, for the following categories of data: a. Metadata parameters stored by parameter byte order and parameter byte length; b. Metadata parameters stored in PVL format; c. Metadata parameters stored in HDF format; d. Dataset-specific metadata formats
S-INS-00408	11031	A	functional	approved	demo	unverified	96-1020		For each data granule specified in an Ingest Request the INGST CI shall determine by means of an Advertisement the appropriate SDSRV CI/DDSRV CI in which to store the data granule.
S-INS-00409	11032	A	interface	approved	demo	unverified	96-1020		The INGST CI shall provide the capability to request storage of a data granule by means of a Data Insert Request to the SDSRV CI/DDSRV CI associated with the type of the data granule.
S-INS-00415	4107	IR1	functional	agreed	test	<u>unverified</u>			The INGST CI shall provide an interim capability to electronically transfer data to be ingested via the ESN into a specified ECS storage location for early interface testing purposes.
S-INS-00420	4108	A	functional	approved	demo	<u>unverified</u>			The INGST CI shall provide the capability for an external application to transfer data to be ingested into a specified ECS storage location.
S-INS-00645	12501	B0	interface	approved	test	unverified	97-0176A		The INGST CI shall ingest Data, provided by the NMC NCEP , into the GSFC DAAC using a CSS file transfer protocol.
S-INS-00684	8957	<u>B0</u> <u>B1</u>	interface	approved	test	unverified	96-1355		The INGST CI shall ingest Data, provided by an SCF, from the LAN into the JPL DAAC using a file transfer protocol.
S-INS-00720	11789	A	interface	approved	demo	unverified	96-1055B		The INGST CI shall ingest data, provided by the EOC, from the ESN using a <u>CSS</u> file transfer protocol.
S-INS-00800	11791	A	interface	approved	demo	unverified	96-1055B		The INGST CI shall ingest Data, provided by Version 0, from the LaRC DAAC using a file transfer protocol , <u>any of the following media:</u> <u>a - Electronic using file transfer protocol</u> <u>b - 4mm tape</u> <u>c - 8mm tape</u>
S-INS-00810	11792	A	interface	approved	demo	unverified	96-1055B		The INGST CI shall ingest Data, provided by Version 0, from the GSFC DAAC on 8mm tape using <u>any of the following media:</u> <u>a - Electronic using file transfer protocol</u>

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									b - 4mm tape c - 8mm tape
S-INS-00840	11815	B <u>0</u> <u>B1</u>	interface	approved	test	unverified	96-1355		The INGST CI shall ingest data provided by ADEOS II/SeaWinds into the JPL DAAC.
S-INS-00841	11816	B <u>0</u> <u>C</u>	interface	approved	test	unverified	96-1355		The INGST CI shall ingest data, provided by RADARSAT Geophysical Processing System (RGPS), into the ASF DAAC via file transfer protocol.
S-INS-00843	11817	B <u>0</u> <u>C</u>	interface	approved	test	unverified	96-1355		The INGST CI shall ingest data, provided by the Acquisition Planning System (APS), into the ASF DAAC via file transfer protocol.
S-INS-00845	11818	B <u>0</u> <u>C</u>	interface	approved	test	unverified	96-1355		The INGST CI shall ingest data, provided by the Product Verification System (PVS), into the ASF DAAC via file transfer protocol.
S-INS-00847	11819	B <u>0</u> <u>C</u>	interface	approved	test	unverified	96-1355		The INGST CI shall ingest data, provided by the Production Planning System (PPS), into the ASF DAAC via file transfer protocol.
S-INS-00849	11820	B <u>0</u> <u>C</u>	interface	approved	test	unverified	96-1355		The INGST CI shall ingest data, provided by the Flight Agency Interface (FAIF), into the ASF DAAC via file transfer protocol.
S-INS-00852	11822	B <u>0</u> <u>C</u>	interface	approved	test	unverified	96-1355		The INGST CI shall ingest Data, provided by ACRIM, into the LaRC DAAC.
S-INS-00854	11823	B <u>0</u> <u>C</u>	interface	approved	test	unverified	96-1355		The INGST CI shall ingest Data, provided by the ASF Receiving Ground Station (RGS) via a network interface using a file transfer protocol.
S-INS-00856	11824	B <u>0</u> <u>C</u>	interface	approved	test	unverified	96-1355		The INGST CI shall ingest Data, provided by the ASF SAR Processing System (SPS) via a network interface using a file transfer protocol.
S-INS-00929	11830	B <u>0</u> <u>C</u>	evolvable	approved	test	unverified	96-1355		The INGST CI at the ASF DAAC shall be capable of 200 percent expansion in throughput without architecture or design change.
S-INS-00930	11831	B <u>0</u> <u>B1</u>	evolvable	approved	test	unverified	96-1355		The INGST CI at the JPL DAAC shall be capable of 200 percent expansion in throughput without architecture or design change.
S-INS-00990	9461	A	performance	approved	demo	<u>unverified</u>			The ICLHW CI at the LaRC DAAC shall be capable of ingesting data from the SDPF at the nominal daily rate specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.
S-INS-01030	9463	A	performance	approved	demo	unverified			The ICLHW CI at the LaRC DAAC shall be capable

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			ce	d		<u>d</u>			of ingesting data, by network data transfer from the NESDIS, at the nominal daily rate specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.
S-INS-01040	4148	A	performance	approved	demo	<u>unverified</u>			The INGST CI at the LaRC DAAC shall be capable of receiving data from the SDPF once per day within 24 hours of the last acquisition Client Session.
S-INS-01136	11243	A	performance	approved	demo	unverified	96-1002		The ICLHW CI at the GSFC DAAC shall be capable of ingesting NOAA NMC NCEP data from the DAO at the nominal daily rate specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.
S-INS-01137	9527	B0	performance	approved	demo	unverified	96-1355		The ICLHW CI at the GSFC DAAC shall be capable of ingesting data from the NMC NCEP at the nominal daily rate specified in Tables E-3a and E-3b of Appendix E of the current version of 304-CD-005 for Release B.
S-INS-01140	9471	B0	performance	approved	demo	unverified	96-1355		The ICLHW CI at the LaRC DAAC shall be capable of ingesting data from the NMC NCEP at the nominal daily rate specified in Tables E-3a and E-3b of Appendix E of the current version of 304-CD-005 for Release B.
S-INS-03103	11832	B0	functional	approved	test	unverified	96-1355		"The INGST CI shall extract metadata from ingested data into a form accepted by the Science Data Server/Document Data Server, as needed, for the following categories of data:" a. Metadata parameters stored in a data-set-specific format
S-INS-03200	11833	B0	<u>operational</u> <u>functional</u>	approved	test	unverified	96-1355		The INGST CI shall be capable of operating in an off-line (test) mode.
S-INS-03210	11834	B0	<u>operational</u> <u>functional</u>	approved	test	unverified	96-1355		The INGST CI shall be capable of accessing test data sets when operating in off-line (test) mode.
S-INS-60150	4159	IR1	functional	agreed	demo	<u>unverified</u>			The ICLHW CI shall have provision for Initialization, Recovery, and an orderly shutdown.
S-INS-60190	4163	IR1	functional	agreed	demo	<u>unverified</u>			The ICLHW CI shall have a status monitoring capability.
S-INS-60320	5254	A	RMA	approved	<u>demo analysis</u>	<u>unverified</u>			The ICLHW CI shall be configured to support the SDPS function of Receiving Science Data's

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									Availability requirement of .999 and Mean Down Time requirement of < 2 hours during times of staffed operation.
S-INS-60325	5193	A	RMA	approved	<u>analysis</u>	<u>unverified</u>			The ICLHW CI shall be configured to support the SDPS function of Metadata Ingest and Update's Availability requirement of .96 and Mean Down Time requirement of 4 hours or less.
S-INS-60326	5211	A	RMA	approved	<u>analysis</u>	<u>unverified</u>			The maximum down time of the ICLHW CI shall not exceed twice the required MDT in 99 percent of failure occurrences.
S-INS-60330	5255	A	RMA	approved	demo	<u>unverified</u>			The ICLHW CI elements and components shall include the on-line (operational mode) and off-line (test mode) fault detection and isolation capabilities required to achieve the specified operational availability requirements.
S-INS-60410	4179	A	interface	approved	demo	<u>unverified</u>			The ICLHW CI shall provide maintenance <u>and operations</u> interfaces to support the function of System Maintenance.
S-INS-60430	4181	IR1	interface	agreed	demo	<u>unverified</u>			The ICLHW CI platforms shall have provision for interfacing with one or more Local Area Networks (LANs).
S-INS-60605	4189	IR1	functional	agreed	demo	<u>unverified</u>			The ICLHW CI shall support test activities throughout the development phase.
S-INS-60610	4894	IR1	functional	agreed	demo	<u>unverified</u>			The following testing shall be performed on the ICLHW CI: a. Unit Testing b. Subsystem testing c. Integration & Testing d. End-to-End testing
S-INS-60620	4191	A	functional	approved	demo	<u>unverified</u>			Internal testing shall be performed on the ICLHW CI which includes tests of hardware functions, and integration testing with other SDPS subsystems.
S-INS-60630	4192	A	functional	approved	demo	<u>unverified</u>			Internal testing shall be performed on the ICLHW CI to verify the internal interfaces to the Data Management, Client, Data Server, Planning, and Data Processing subsystems.
S-INS-60640	4193	A	functional	approved	demo	<u>unverified</u>			Each ICLHW CI element shall be capable of supporting end-to-end test and verification activities of the EOS program including during the pre-

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									launch, spacecraft verification, and instrument verification phases.
S-INS-60650	4194	IR1	functional	agreed	demo	<u>unverified</u>			The ICLHW CI shall be capable of being monitored during testing.
S-INS-60740	9532	A	performance	approved	demo	<u>unverified</u>			The ICLHW CI at the LaRC DAAC shall be sized to store and maintain the volume of SDPF data for a 1 year period of time as specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.
S-INS-60746	9536	<u>B0 B1</u>	performance	approved	demo	unverified	96-1355		The ICLHW CI at the JPL DAAC shall be sized to store and maintain the volume of ADEOS II data for a 1-year period of time as specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.
S-INS-60748	9537	<u>B0 B1</u>	performance	approved	demo	unverified	96-1355		The ICLHW CI at the JPL DAAC shall be sized to store and maintain the volume of ALT-RADAR data for a 1-year period of time as specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.
S-INS-60750	9479	A	performance	approved	demo	<u>unverified</u>			The ICLHW CI at the GSFC DAAC shall be sized to temporarily store ingest data to support early testing of the EDOS interface.
S-INS-60755	9481	A	performance	approved	demo	<u>unverified</u>			The ICLHW CI at the LaRC DAAC shall be sized to temporarily store two times the daily volume of SDPF data as specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.
S-INS-60765	5259	A	RMA	approved	demo	<u>unverified</u>			The ICLHW CI shall have a switchover time from the primary science data receipt capability to a backup capability of 15 minutes or less.
S-INS-60771	9541	<u>B0 B1</u>	performance	approved	test	unverified	96-1355		The ICLHW CI at the JPL DAAC shall be sized to temporarily store the volume of ALT-RADAR data as specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.
S-INS-60772	9486	<u>B0 B1</u>	performance	approved	test	unverified	96-1355		The ICLHW CI at the JPL DAAC shall be sized to temporarily store the volume of ADEOS II data as specified in Appendix E (Section E.1, Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a

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									and E-3b) of the current version of 304-CD-005.
S-INS-60810	4210	IR1	standards	agreed	demo	<u>unverified</u>			The operating system for each UNIX platform in the ICLHW CI shall conform to the POSIX.2 standard.
S-INS-60820	4211	IR1	functional	agreed	demo	<u>unverified</u>			The ICLHW CI POSIX.2 compliant platform shall have the following utilities installed at a minimum: perl, emacs, gzip, tar, imake, prof, gprof, nm.
S-INS-60830	4212	IR1	functional	agreed	demo	<u>unverified</u>			The ICLHW CI POSIX.2 compliant platform shall have the following POSIX.2 user Portability Utilities installed at a minimum: man, vi.
S-INS-60840	4213	IR1	functional	agreed	demo	<u>unverified</u>			The ICLHW CI POSIX.2 compliant platform shall have the following POSIX.2 Software Development Utilities installed at a minimum: make.
S-INS-60850	4214	IR1	functional	agreed	demo	<u>unverified</u>			The ICLHW CI POSIX.2 compliant platform shall have the following POSIX.2 C-Language Development Utilities installed at a minimum: lex, yacc.
S-INS-60860	4215	IR1	functional	agreed	demo	<u>unverified</u>			The ICLHW CI POSIX.2 compliant platform shall have the following Unix shells installed at a minimum: C shell, Bourne shell, Korn shell.
S-INS-60870	4216	IR1	functional	agreed	demo	<u>unverified</u>			The ICLHW CI POSIX.2 compliant platform shall have on-line documentation or printed documentation for each installed tool.
S-INS-60880	4217	IR1	functional	agreed	demo	<u>unverified</u>			The ICLHW CI POSIX.2 compliant platform shall have installed one or more development environment supporting the following languages: a. C b. C++
S-INS-60890	4218	IR1	functional	agreed	demo	<u>unverified</u>			Each development environment associated with the POSIX.2 compliant platform in the ICLHW CI shall have the capability to compile and link strictly conformant POSIX-compliant source code.
S-INS-60895	4219	IR1	functional	agreed	demo	<u>unverified</u>			Each development environment associated with the POSIX.2 compliant platform in the ICLHW CI shall have an interactive source level debugger for ECS supported languages.
S-INS-61050	9493	B0	performance	approved	test	unverified	96-1355		The ICLHW CI at the EDC DAAC shall be capable of ingesting data from the Landsat 7 IGSS at the nominal daily rate specified in Appendix E (Section E.1, Table E-1, Section E.2 Table E-2, and Section

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									E.3 Tables E-3 Tables E-3a and E-3b) of the current version of 304-CD-005.
S-INS-61080	9494	B0	performance	approved	test	unverified	96-1355		The ICLHW CI at the GSFC DAAC shall be capable of ingesting data from the <u>NMC</u> <u>NCEP</u> at the nominal daily rate specified in Appendix E (Section E.1, Table E-1, and Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.
S-INS-61110	9534	<u>B0</u> <u>B1</u>	performance	approved	test	unverified	96-1355		The ICLHW CI at the JPL DAAC shall be capable of ingesting data from RADAR-ALT at the nominal daily rate specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.
S-INS-61115	9535	<u>B0</u> <u>B1</u>	performance	approved	test	unverified	96-1355		The ICLHW CI at the JPL DAAC shall be capable of ingesting data from ADEOS II at the nominal daily rate specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.
S-INS-61150	9543	<u>B0</u> <u>C</u>	performance	approved	test	unverified	96-1355		The ICLHW CI at the ASF DAAC shall be capable of ingesting data from the ASF RGS at the nominal daily rate specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.
S-INS-61160	9544	<u>B0</u> <u>C</u>	performance	approved	test	unverified	96-1355		The ICLHW CI at the ASF DAAC shall be capable of ingesting data from the ASF SPS at the nominal daily rate specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.
S-INS-61170	9545	<u>B0</u> <u>C</u>	performance	approved	test	unverified	96-1355		The ICLHW CI at the LaRC DAAC shall be capable of ingesting data from ACRIM at the nominal daily rate specified in Appendix E (Section E.1 Table E-1, Section E.2 Table E-2, and Section E.3 Tables E-3a and E-3b) of the current version of 304-CD-005.